

Attachment to Paper #12

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 1 of 17

In the Application of Casey CASE et al.

Serial No.: 09/731,558

Art Unit: 1631

Filed: December 6, 2000

Examiner: unassigned

Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
<i>Per AG</i>	AA-1	4,990,607	February 5, 1991	Katagiri et al.	_____	_____	
<i>JB</i>	AB-1	5,096,814	March 17, 1992	Aivasidis et al.	_____	_____	
<i>JB</i>	AC-1	5,096,815	March 17, 1992	Ladner et al.	_____	_____	
<i>JB</i>	AD-1	5,173,414	December 22, 1992	Lebkowski et al.	_____	_____	
<i>JB</i>	AE-1	5,198,346	March 30, 1993	Ladner et al.	_____	_____	
<i>JB</i>	AF-1	5,223,409	June 29, 1993	Ladner et al.	_____	_____	
	AG-1	5,243,041	September 7, 1993	Fernandez-Pol	_____	_____	
	AH-1	5,302,519	April 12, 1994	Blackwood et al.	_____	_____	
	AI-1	5,324,638	June 28, 1994	Tao et al.	_____	_____	
	AJ-1	5,324,818	June 28, 1994	Nabel et al.	_____	_____	
	AK-1	5,324,819	June 28, 1994	Oppermann et al.	_____	_____	
	AL-1	5,340,739	August 23, 1994	Stevens et al.	_____	_____	
	AM-1	5,348,864	September 20, 1994	Barbacid et al.	_____	_____	
	AN-1	5,350,840	September 27, 1994	Call et al.	_____	_____	
	AO-1	5,356,802	October 18, 1994	Chandrasegaran	_____	_____	
	AP-1	5,376,530	December 27, 1994	De The et al.	_____	_____	
<i>JB</i>	AQ-1	5,403,484	April 4, 1995	Ladner et al.	_____	_____	

Examiner:

J.B. Brunson

Date Considered:

7/31/02

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85	AR-1	5,436,150	July 25, 1995	Chandrasegaran	_____	_____	_____
	AS-1	5,487,994	January 30, 1996	Chandrasegaran	_____	_____	_____
	AT-1	5,498,530	March 12, 1996	Schatz et al.	_____	_____	_____
	AU-1	5,578,483	November 26, 1996	Evans et al.	_____	_____	_____
	AV-1	5,597,693	January 28, 1997	Evans et al.	_____	_____	_____
	AW-1	5,639,592	June 17, 1997	Abramson et al.	_____	_____	_____
	AX-1	5,674,738	October 7, 1997	Abramson et al.	_____	_____	_____
	AY1	5,702,914	December 30, 1997	Evans et al.	_____	_____	_____
	AZ-1	5,789,538	August 4, 1998	Rebar et al.	_____	_____	_____
	BA-1	5,792,640	August 11, 1998	Chandrasegaran	_____	_____	_____
	BB-1	5,869,618	February 9, 1999	Lippman et al.	_____	_____	_____
	BC-1	5,871,902	February 16, 1999	Weininger et al.	_____	_____	_____
	BD-1	5,871,907	February 16, 1999	Winter et al.	_____	_____	_____
	BE-1	5,916,794	June 29, 1999	Chandrasegaran	_____	_____	_____
	BF-1	5,939,538	August 17, 1999	Leavitt et al.	_____	_____	_____
	BG1	5,972,615	October 26, 1999	An et al.	_____	_____	_____
	BH-1	6,001,885	December 14, 1999	Vega et al.	_____	_____	_____
	BI-1	6,007,988	December 28, 1999	Choo et al.	_____	_____	_____
✓	BJ-1	6,013,453	January 11, 2000	Choo et al.	_____	_____	_____

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J.B. Bruce

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FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES NO	
<i>25</i>	BK-1	WO 94/05700	March 17, 1994	PCT				
	BL-1	WO 95/19431	July 20, 1995	PCT				
	BM-1	WO 96/06110	February 29, 1996	PCT				
	BN-1	WO 96/06166	February 29, 1996	PCT				
	BO-1	WO 96/11267	April 18, 1996	PCT				
	BP-1	WO 96/20951	July 11, 1996	PCT				
	BQ-1	WO 96/32475	October 17, 1996	PCT				
	BR-1	WO 97/27212	July 31, 1997	PCT				
	BS-1	WO 97/27213	July 31, 1997	PCT				
	BT-1	WO 98/53057	November 26, 1998	PCT				
	BU-1	WO 98/53058	November 26, 1998	PCT				
	BV-1	WO 98/53059	November 26, 1998	PCT				
	BW-1	WO 98/53060	November 26, 1998	PCT				
<i>25</i>	BX1	WO 98/54311	December 3, 1998	PCT				
<i>25</i>	BY-1	WO 99/35494	July 15, 1999	PCT				
<i>25</i>	BZ-1	WO 99/36553	July 22, 1999	PCT				
<i>25</i>	CA-1	WO 99/41371	August 19, 1999	PCT				

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123	CB-1	WO 99/42474	August 26, 1999	PCT	—	—		
✓	CC-1	WO 99/45132	September 10, 1999	PCT	—	—		
	CD-1	WO 99/47656	September 23, 1999	PCT	—	—		
	CE-1	WO 99/48909	September 30, 1999	PCT	—	—		
	CF-1	WO 00/23464	April 27, 2000	PCT	—	—		
	CG-1	WO 00/27878	May 18, 2000	PCT	—	—		
✓	CH-1	O 873 567 A2	April 8, 1998	EPO	—	—		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
123	CI-1	Agarwal et al., "Stimulation of Transcript Elongation Requires Both the Zinc Finger and RNA Polymerase II Binding Domains of Human TFIIIS," <i>Biochemistry</i> <u>30</u> (64):7842-7851 (1991)
✓	CJ-1	Antao et al., "A Thermodynamic Study of Unusually Stable RNA and DNA Hairpins," <i>Nuc. Acids. Res.</i> <u>19</u> (21):5901-5905 (1991)
	CK-1	Barbas, C. F., "Recent Advances in Phage Display," <i>Curr. Opin. Biotech.</i> <u>4</u> :526-530 (1993)
	CL-1	Barbas et al., "Assembly of Combinatorial Antibody Libraries on Phage Surfaces: The Gene III Site," <i>PNAS</i> <u>88</u> :7978-7982 (1991)
	CM-1	Barbas et al., "Semisynthetic Combinatorial Antibody Libraries: A Chemical Solution to the Diversity Problem," <i>PNAS</i> <u>89</u> :4457-4461 (1992)
✓	CN-1	Beerli et al., "Toward Controlling Gene Expression at Will: Specific Regulation of the erbB-2/HER-2 Promoter by Using Polydactyl Zinc Finger Proteins Constructed From Modular Building Blocks," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>95</u> :14628-14633 (1998)

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Exam. Init.	Ref. Desig.	Description
<i>JB</i>	CO-1	Bellefroid et al., "Clustered Organization of Homologous KRAB Zinc-Finger Genes With Enhanced Expression in Human T Lymphoid Cells," <i>EMBO J.</i> <u>12</u> (4):1363-1374 (1993)
<i>JB</i>	CP-1	Berg, J.M., "DNA Binding Specificity of Steroid Receptors," <i>Cell</i> <u>57</u> :1065-1068 (1989)
<i>JB</i>	CQ-1	Berg, J.M., "Sp1 and the Subfamily of Zinc-Finger Proteins with Guanine-Rich Binding Sites," <i>PNAS</i> <u>89</u> :11109-11110 (1992)
<i>JB</i>	CR-1	Berg et al., "The Galvanization of Biology: A Growing Appreciation for the Roles of Zinc," <i>Science</i> <u>271</u> :1081-1085 (1996)
<i>JB</i>	CS-1	Berg, J.M., "Letting Your Fingers do the Walking," <i>Nature Biotechnology</i> <u>15</u> :323 (1997)
<i>JB</i>	CT-1	Bergqvist et al., "Loss of DNA-binding and new Transcriptional Trans-Activation Function in Polyomavirus Large T-Antigen with Mutation of Zinc Finger Motif," <i>Nuc. Acids Res.</i> <u>18</u> (9):2715-2720 (1990)
<i>JB</i>	CU-1	Blaese et al., "Vectors in Cancer Therapy: How Will They Deliver?," <i>Cancer Gene Therapy</i> <u>2</u> (4):291-297 (1995)
<i>JB</i>	CV-1	Buchschacher Buchschacher et al., "Human Immunodeficiency Virus Vectors for Inducible Expression of Foreign Genes," <i>Journal of Virology</i> <u>66</u> (5):2731-2739 (1992)
<i>JB</i>	CW-1	Caponigro et al., "Transdominant Genetic Analysis of a Growth Control Pathway," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>95</u> :7508-7513 (1998)
<i>JB</i>	CX-1	Celenza et al., "A Yeast Gene That Is Essential for Release from Glucose Repression Encodes a Protein Kinase," <i>Science</i> <u>233</u> :1175-1180 (1986)
<i>JB</i>	CY-1	Cheng et al., "Identification of Potential Target Genes for Adrlp through Characterization of Essential Nucleotides in UAS1," <i>J. Mol. Cellular Biol.</i> <u>14</u> (6):3842-3852 (1994)
<i>JB</i>	CZ-1	Cheng et al., "A Single Amino Acid Substitution in Zinc Finger 2 of Adrlp Changes its Binding Specificity at two Positions in UAS1," <i>J. Mol. Biol.</i> <u>251</u> :1-8 (1995)

Examiner:

J.B. Brune

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Exam. Init.	Ref. Desig.	Description
BB	DA-1	Choo et al., "A Role in DNA-Binding for the Linker Sequences of the First Three Zinc Fingers of TFIIIA <i>Nuc. Acids Res.</i> <u>21</u> (15):3341-3346 (1993)
	DB-1	Choo et al., "Promoter-Specific Activation of Gene Expression Directed By Bacteriophage-Selected Zinc Fingers," <i>J. Mol. Biol.</i> <u>273</u> :525-532 (1997)
	DC-1	Choo et al., "Designing DNA-Binding Proteins on the Surface of Filamentous Phage," <i>Curr. Opin. Biotechnology</i> <u>6</u> :431-436 (1995);
	DD-1	Choo, Y., "Recognition of DNA Methylation by Zinc Fingers," <i>Nature Struct Biol.</i> <u>5</u> (4):264-365 (1998)
	DE-1	Choo et al., "All Wrapped Up," <i>Nature Structural Biology</i> <u>5</u> (4):253-255 (1998)
	DF-1	Choo, Y., "End Effects in DNA Recognition by Zinc Finger Arrays," <i>Nuc. Acids. Res.</i> <u>26</u> (2):554-557 (1998)
	DG-1	Choo et al., Physical Basis of Protein-DNA Recognition Code," <i>Curr. Opin. Struct. Biol.</i> <u>7</u> (1):117-125 (1997)
	DH-1	Choo et al., "In Vivo Repression by a Site-Specific DNA-Binding Protein Designed Against an Oncogenic Sequence," <i>Nature</i> <u>372</u> :642-645 (1994)
	DI-1	Choo et al., "Selection of DNA Binding Sites for Zinc Fingers Using Rationally Randomized DNA Reveals Coded Interactions," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :11168-11172 (1994)
	DJ-1	Choo et al., "Toward a Code for the Interactions of Zinc Fingers With DNA: Selection of Randomized Fingers Displayed on Phage," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :11163-11167
	DK-1	Clark et al., "Zinc Fingers in <i>Caenorhabditis elegans</i> : Finding Families and Probing Pathways," <i>Science</i> <u>282</u> :2018-2022 (1998)
V	DL-1	Corbi et al., "Synthesis of a New Zinc Finger Peptide: Comparison of Its "Cod" Deduced and CASTing Derived Binding Sites," <i>FEBS Letters</i> <u>417</u> :71-74 (1997)

Examiner:

JB. Buss

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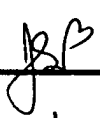

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Exam. Init.	Ref. Desig.	Description
	DM-1	Crozatier et al., "Single Amino Acid Exchanges in Separate Domains of the Drosophila Serendipity δ Zinc Finger Protein Cause Embryonic and Sex Biased Lethality," <i>Genetics</i> <u>131</u> :905-916 (1992)
	DN-1	Debs et al., Regulation of Gene Expression <i>in Vivo</i> by Liposome-Mediated Delivery of a Purified Transcription Factor," <i>J. Biological Chemistry</i> <u>265</u> (18):10189-10192 (1990)
	DO-1	Desjarlais et al., "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," <i>Proteins: Structure, Function, and Genetics</i> <u>12</u> (2):101-104 (1992)
	DP-1	Desjarlais et al., "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," <i>Proteins: Structure, Function, and Genetics</i> <u>13</u> (3):272 (1992)
	DQ-1	Desjarlais, J. R. and Berg, J.M., "Length-Encoded Multiplex binding Site Determination: Application to Zinc Finger Proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :11099-11103 (1994)
	DR-1	Desjarlais, J. R. and Berg, J.M., "Use of a Zinc-Finger Consensus Sequence Framework and Specificity Rules to Design Specific DNA Binding Proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>90</u> :2256-2260 (1993)
	DS-1	Desjarlais, J. R. and Berg, J.M., "Toward Rules Relating Zinc Finger Protein-Sequences and DNA Binding Preferences," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>89</u> :7345-4349 (1992)
	DT-1	Dibello et al., "The Drosophila <i>Broad-Complex</i> Encodes a Family of Related Proteins Containing Zinc Fingers," <i>Genetics</i> <u>129</u> :385-397 (1991)
	DU-1	Elrod-Erickson et al., "High-Resolution Structures of Variant Zif268-DNA Complexes: Implications for Understanding Zinc Finger-DNA Recognition," <i>Structure</i> <u>6</u> (4):451-464 (1998)
	DV-1	Elrod-Erickson et al., "Zif268 Protein-DNA Complex Refined at 1.6 Å: a Model System for Understanding Zinc Finger-DNA Interactions," <i>Structure</i> <u>4</u> (10):1171-1180 (1996)
	DW-1	Fairall et al., "The Crystal Structure of a Two Zinc-Finger Peptide Reveals an Extension to the Rules for Zinc-Finger /DNA Recognition," <i>Nature</i> <u>366</u> :483-487 (1993)

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Exam. Init.	Ref. Desig.	Description
JB	DX-1	Frankel et al., "Fingering Too Many Proteins," <i>Cell</i> <u>53</u> :675 (1988)
↓	DY-1	Friesen et al., "Phage Display of RNA Binding Zinc Fingers from Transcription Factor IIA*," <i>J. Biological Chem.</i> <u>272</u> (17):10994-10997 (1997)
↓	DZ-1	Friesen et al., "Specific RNA Binding Proteins Constructed from Zinc Fingers," <i>Nature Structural Biology</i> <u>5</u> (7):543-546 (1998)
JB	EA-1	Gilleman et al., "Altered DNA Binding Specificity Mutants of EKLF and Spl Show that EKLF is an Activator of the b-globin locus Control Region <i>in vivo</i> ," <i>Genes and Development</i> <u>12</u> :2863-2873 (1998)
↓	EB-1	Gogos et al., "Recognition of Diverse Sequences by Class I Zinc Fingers: Asymmetries and Indirect Effects on Specificity in the Interaction Between CF2II and A + T-Rich Sequences Elements," <i>PNAS</i> <u>93</u> (5):2159-2164 (1996)
JB	EC-1	Goldfarb et al., "Isolation and Preliminary Characterization of a Human Transforming Gene From T24 Bladder Carcinoma Cells," <i>Nature</i> <u>296</u> :404- (1982)
↓	ED-1	Gossen et al., "Tight Control of Gene Expression in Mammalian Cells by Tetracycline-Responsive Promoter," <i>PNAS</i> <u>89</u> :5547-5551 (1992)
↓	EE-1	Greisman & Pabo, "A General Strategy for Selecting High-Affinity Zinc Finger Proteins for Diverse DNA Target Sites," <i>Science</i> <u>275</u> :657-661 (1997)
↓	EF-1	Hamilton et al., "High Affinity Binding Sites for the Wilms' Tumor Suppressor Protein WT1," <i>Nuc. Acids. Res.</i> <u>23</u> (2):277-284 (1995)
↓	EG-1	Hamilton et al., "Comparison of the DNA Binding Characteristics of the Related Zinc Finger Proteins WT1 and EGR1," <i>Biochemistry</i> <u>37</u> :2051-2058 (1998)
↓	EH-1	Hanas et al., "Internal Deletion Mutants of <i>Xenopus</i> Transcription Factor IIIA," <i>Nuc. Acids. Res.</i> <u>17</u> (23):9861-9870 (1989)
JB	EI-1	Hannon et al., "MaRX: An Approach to Genetics in Mammalian Cells," <i>Science</i> <u>283</u> :1129-1130 (1999)

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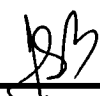










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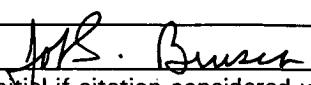
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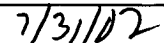
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Exam. Init.	Ref. Desig.	Description
	EJ-1	Hayes et al., "Locations of Contacts Between Individual Zinc Fingers <i>Xenopus laevis</i> Transcription Factor IIIA and the Internal Control Region of a 5S RNA Gene," <i>Biochemistry</i> <u>31</u> :11600-11605 (1992)
	EK-1	Heinzel et al., "A Complex containing N-CoR, MSin3 and Histone Deacetylase Medates Transcriptional Repression," <i>Nature</i> <u>387</u> :43-48 (1997)
	EL-1	Hermonat & Muzyczka, "Use of Adeno-Associated Virus as a Mammalian DNA Cloning Vector: Transduction of Neomycin Resistance into Mammalian Tissue Culture Cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>81</u> :6466-6470 (1984)
	EM-1	Hirst et al., "Discrimination of DNA Response Elements for Thyroid Hormone and Estrogen is Dependent on Dimerization of Receptor DNA Binding Domains," <i>PNAS</i> <u>89</u> :5527-5531 (1992)
	EN-1	Hoffman et al., "Structures of DNA-Binding Mutant Zinc Finger Domains: Implications for DNA Binding," <i>Protein Science</i> <u>2</u> :951-965 (1993)
	EO-1	Imhof et al., "Transcriptional Regulation of the AP-Zalpha Promoter by BTEB-1 and AP-ZREP, a Novel WT-1/EGR-Related Zinc Finger Repressor," <i>Molecular and Cellular Biology</i> <u>19</u> (1):194-204 (1999)
	EP-1	Isalan et al., "Synergy Between Adjacent Zinc Fingers in Sequence-Specific DNA Recognition," <i>PNAS</i> <u>94</u> (11):5617-5621 (1997)
	EQ-1	Isalan et al., "Comprehensive DNA Recognition Through Concerted Interactions from Adjacent Zinc Fingers," <i>Biochemistry</i> <u>37</u> :12026-12033 (1998)
	ER-1	Jacobs, G.H., "Determination of the Base Recognition Positions of Zinc Fingers From Sequence Analysis," <i>EMBO J.</i> <u>11</u> (12):4507-4517 (1992)
	ES-1	Jamieson et al. "A Zinc Finger Directory for High-Affinity DNA Recognition," <i>PNAS</i> <u>93</u> :12834-12839 (1996)
	ET-1	Jamieson et al., "In Vitro Selection of Zinc Fingers with Altered DNA-Binding Specificity," <i>Biochemistry</i> <u>33</u> :5689-5695 (1994)

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Serial No.: 09/731,558

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Examiner: unassigned

Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

Exam. Init.	Ref. Desig.	Description
JS	EU-1	Johann et al., "GLVR1, a Receptor for Gibbon Ape Leukemia Virus, Is Homologous to a Phosphate Permease of <i>Neurospora crassa</i> and Is Expressed in High Levels in the Brain and Thymus," <i>Journal of Virology</i> <u>66</u> (3):1635-1640 (1992)
	EV-1	Julian et al., "Replacement of His23 by Cys in a Zinc Finger of HIV-1NCp7 Led to a Change in 1H NMR-Derived 3D Structure and to a Loss of Biological Activity," <i>FEBS Letters</i> <u>331</u> (1,2):43-48 (1993)
	EW-1	Kamiuchi et al., "New Multi Zinc Finger Protein: Biosynthetic Design and Characteristics of DNA Recognition," <i>Nucleic Acids Symposium Series</i> <u>37</u> :153-154 (1997)
	EX-1	Kang et al., "Zinc Finger Proteins as Designer Transcription Factors," <i>J. Biol. Chem.</i> <u>275</u> (12):8742-8748 (2000)
	EY-1	Kim et al., "Serine at Position 2 in the DNA Recognition Helix of a Cys2-His2 Zinc Finger Peptide is Not, in General, Responsible for Base Recognition," <i>J. Mol. Biol.</i> <u>252</u> :1-5 (1995)
	EZ-1	Kim et al., "Site-Specific Cleavage of DNA-RNA Hybrids by Zinc Finger/ <i>FokI</i> Cleavage Domain Fusions," <i>Gene</i> <u>203</u> :43-49 (1997)
	FA-1	Kim et al., "A 2.2 Å Resolution Crystal Structure of a Designed Zinc Finger Protein Bound to DNA," <i>Nat. Struct. Biol.</i> <u>3</u> (11):940-945 (1996)
	FB-1	Kim et al., "Design of TATA Box-Binding Protein/Zinc Finger Fusions for Targeted Regulation of Gene Expression," <i>PNAS</i> <u>94</u> :3616-3620 (1997)
	FC-1	Kim et al., "Hybrid Restriction Enzymes: Zinc Finger Fusions <i>FokI</i> Cleavage Domain," <i>PNAS</i> <u>93</u> :1156-1160 (1996)
	FD-1	Kim, J.S. and Pabo, C.O., "Getting a Handhold on DNA: Design of Poly-Zinc finger Proteins with Femtomolar Dissociation Constants," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>95</u> :2812-2817 (1998)
✓	FE-1	Kim, J.S. and Pabo, C.O., "Transcriptional Repression by Zinc Finger Peptides," <i>The Journal of Biological Chemistry</i> <u>272</u> :29795-28000 (1997)

Examiner:

JS. Brusa

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Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

Exam. Init.	Ref. Desig.	Description
JB	FF-1	Kinzler et al., "The GLI Gene is Member of the Kruppel Family of Zinc Finger Proteins," <i>Nature</i> <u>332</u> :371-374 (1988)
JB	FG-1	Klug, A., "Gene Regulatory Proteins and Their Interaction with DNA," <i>Ann. NY Acad. Sci.</i> <u>758</u> :143-160 (1995)
JB	FH-1	Klug et al., "Protein Motifs 5: Zinc Fingers," <i>FASEB J.</i> <u>9</u> :597-604 (1995)
JB	FI-1	Klug, "Zinc Finger Peptides for the Regulation of Gene Expression," <i>J. Mol. Biol.</i> <u>293</u> :215-218 (1999)
JB	FJ-1	Kothekar, "Computer Simulation of Zinc Finger Motifs from Cellular Nucleic Acid Binding Proteins and their Interaction with Consensus DNA Sequences," <i>FEBS Letters</i> <u>274</u> (1,2):217-222 (1990)
JB	FK-1	Kriwacki et al., "Sequence-Specific Recognition of DNA by Zinc-Finger Peptides Derived From the Transcription Factor Sp1," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>89</u> :9759-9763 (1992)
JB	FL-1	Kulda et al., "The Regulatory Gene <i>areA</i> Mediating Nitrogen Metabolite R in <i>Aspergillus nidulans</i> Mutations Affecting Specificity of Gene Activation Alter a Loop Residue of Putative Zinc Finger," <i>EMBO J.</i> <u>9</u> (5):1355-1364 (1990)
JB	FM-1	Laird-Offringa et al., "RNA-Binding Proteins Tamed," <i>Nat. Structural Biol.</i> <u>5</u> (8):665-668 (1998)
JB	FN-1	Liu et al., "Design of Polydactyl Zinc-Finger Proteins for Unique Addressing Within Complex Genomes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>94</u> :5525-5530 (1997)
JB	FO-1	Liu et al., "Regulation of an Endogenous Locus Using a Panel of Designed Zinc Finger Proteins Targeted to Accessible Chromatin Regions: Activation of Vascular Endothelial Growth Factor A," <i>Journal of Biological Chemistry</i> <u>276</u> (14):11323-11334 (2001)
JB	FP-1	Liu et al., "Transcription Factor EGR-1 Suppresses the Growth and Transformation of Human HT-1080 Fibrosarcoma Cells by Induction of Transforming Growth Factor Beta 1," <i>Proceedings of the National Academy of Sciences of USA, US, National Academy of Science, Washington</i> <u>93</u> (21):11831-11836 (1996)

Examiner: JB. Busca

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Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

Exam. Init.	Ref. Desig.	Description
<u>JB</u>	FQ-1	Mandel-Gutfreund et al., "Quantitative Parameters for Amino Acid-Base Interaction: Implication for Predication of Protein-DNA Binding Sites," <i>Nuc. Acids Res.</i> <u>26</u> (10):2306-2312 (1998)
<u>JB</u>	FR-1	Margolin et al., "Kruppel-Associated Boxes are Potent Transcriptional Repression Domains," <i>PNAS</i> <u>91</u> :4509-4513 (1994)
<u>JB</u>	FS-1	Miller et al., "Construction and Properties of Retrovirus Packaging Cells Based on Gibbon Ape Leukemia Virus," <i>Journal of Virology</i> <u>65</u> (5):2220-2224 (1991)
	FT-1	Mizushima et al., "pEF-BOS, a Powerful Mammalian Expression Vector," <i>Nuc. Acids. Res.</i> <u>18</u> (17):5322 (1990)
	FU-1	Nakagama et al., "Sequence and Structural Requirements for High-Affinity DNA Binding by the WT1 Gene Product," <i>Molecular and Cellular Biology</i> <u>15</u> (3):1489-1498 (1995)
	FV-1	Nardelli et al., "Zinc Finger-DNA Recognition: Analysis of Base Specificity by Site-Directed Mutagenesis," <i>Nucleic Acids Research</i> <u>20</u> (16):4137-4144 (1992)
	FW-1	Nardelli et al., "Base Sequence Discrimination by Zinc-Finger DNA-Binding Domians," <i>Nature</i> <u>349</u> :175-178 (1991)
	FX-1	Nekludova et al., "Distinctive DNA Conformation With Enlarged Major Groove is Found in Zn-Finger-DNA and Other Protein-DNA Complexes," <i>PNAS</i> <u>91</u> :6948-6952 (1994)
	FY-1	Orkin et al., "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy," (1995) www.nih.gov/news/panelrep.html
	FZ-1	Pabo et al., "Systematic Analysis of Possible Hydrogen Bonds between Amino Acid Side Chains and B-form DNA," <i>J. Biomolecular Struct. Dynamic</i> <u>1</u> :1039-1049 (1983)
	GA-1	Pabo et al., "Protein-DNA Recognition," <i>Ann. Rev. Biochem.</i> <u>53</u> :293-321 (1984)
	GB-1	Pabo, C. O., "Transcription Factors: Structural Families and Principals of DNA Recognition," <i>Ann. Rev. Biochem.</i> <u>61</u> :1053-1095 (1992)
<u>JB</u>	GC-1	Pavletich et al., "Crystal Structure of a Five-Finger GLI-DNA Complex: New Perspectives on Zinc Fingers," <i>Science</i> , <u>261</u> :1701-1707 (1993)

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Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

Exam. Init.	Ref. Desig.	Description
<u>GB</u>	GD-1	Pavletich et al., "Zinc Finger-DNA Recognition: Crystal Structure of a Zif268-DNA Complex at 2.1 Å," <i>Science</i> <u>252</u> :809-817 (1991)
<u>V</u>	GE-1	Pengue et al., "Repression of Transcriptional Activity at a Distance by the Evolutionarily Conserved KRAB Domain Present in a Subfamily of Zinc Finger Proteins," <i>Nuc. Acids Res.</i> <u>22</u> (15):2908-2914 (1994)
	GF-1	Pengue et al., "Transcriptional Silencing of Human Immunodeficiency Virus Type I Long Terminal Repeat-Driven Gene Expression by the Kruppel-Associated Box Repressor Domain Targeted to the Transactivating Response Element," <i>J. Virology</i> <u>69</u> (10):6577-6580 (1995)
	GG-1	Pengue et al., "Kruppel-Associated Box-Mediated Repression of RNA Polymerase 11 Promoters is Influenced by the Arrangement of Basal Promoter Elements," <i>PNAS</i> <u>93</u> :1015-1020 (1996)
	GH-1	Pomerantz et al., "Analysis of Homeodomain Function by Structure-Based Design of a Transcription Factor," <i>PNAS</i> <u>92</u> :9752-9756 (1995)
	GI-1	Pomerantz et al., "Structure-Based Design of Transcription Factors," <i>Science</i> <u>267</u> :93-96 (1995)
	GJ-1	Pomerantz et al., "Structure-Based Design of a Dimeric Zinc Finger Protein," <i>Biochemistry</i> <u>37</u> (4):965-970 (1998)
	GK-1	Qian et al., "Two-Dimensional NMR Studies of the Zinc Finger Motif: Solution Structures and Dynamics of Mutant ZFY Domains Containing Aromatic Substitutions in the Hydrophobic Core," <i>Biochemistry</i> <u>31</u> :7463-7476 (1992)
	GL-1	Quigley et al., "Complete Androgen Insensitivity Due to Deletion of Exon C of the Androgen Receptor Gene Highlights the Functional Importance of the Second Zinc Finger of the Androgen Receptor <i>In Vivo</i> ," <i>Molecular Endocrinology</i> <u>6</u> (7):1103-1112 (1992)
<u>V</u>	GM-1	Rauscher et al., "Binding of the Wilms' Tumor Locus Zinc Finger Protein to the EGR-1 Consensus Sequence," <i>Science</i> <u>250</u> :1259-1262 (1990)

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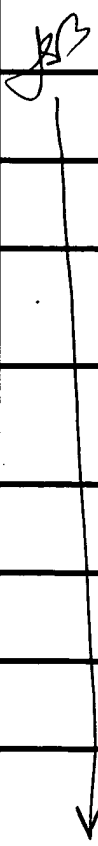


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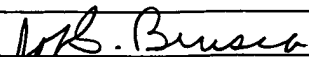
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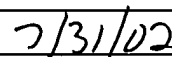
Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

Exam. Init.	Ref. Desig.	Description
	GN-1	Ray et al., "Repressor to Activator Switch by Mutations in the First Zn Finger of the Glucocorticoid Receptor: Is Direct DNA Binding Necessary?," <i>PNAS</i> <u>88</u> :7086-7090 (1991)
	GO-1	Rebar et al., "Phage Display Methods for Selecting Zinc Finger Proteins with Novel DNA-Binding Specificities," <i>Methods in Enzymology</i> <u>267</u> :129-149 (1996)
	GP-1	Rebar et al., "Zinc Finger Phage: Affinity Selection of Fingers With New DNA-Binding Specificities," <i>Science</i> <u>263</u> :671-673 (1994)
	GQ-1	Reith et al., "Cloning of the Major Histocompatibility Complex Class II Promoter Binding Protein Affected in a Hereditary Defect in Class II Gene Regulation," <i>PNAS</i> <u>86</u> :4200-4204 (1989)
	GR-1	Rhodes et al., "Zinc Fingers: They Play a Key Part in Regulating the Activity of Genes in Many Species, From Yeast to Humans. Fewer Than 10 Years Ago No One Knew They Existed." <i>Scientific American</i> <u>268</u> :56-65 (1993)
	GS-1	Rice et al., "Inhibitors of HIV Nucleocapsid Protein Zinc Fingers as Candidates for the Treatment of AIDS," <i>Science</i> . <u>270</u> :1194-1197 (1995)
	GT-1	Rivera et al., "A Humanized System for Pharmacologic Control of Gene Expression," <i>Nature Medicine</i> <u>2</u> (9):1028-1032 (1996)
	GU-1	Rollins et al., "Role of TFIIIA Zinc Fingers <i>In vivo</i> : Analysis of Single-Finger Function in Developing <i>Xenopus</i> Embryos," <i>Molecular Cellular Biology</i> <u>13</u> (8):4776-4783 (1993)
	GV-1	Saleh et al., "A Novel Zinc Finger Gene on Human Chromosome 1 qter That is Alternatively Spliced in Human Tissues and Cell Lines," <i>American Journal of Human Genetics</i> <u>52</u> :192-203 (1993)
	GW-1	Samulski et al., "Helper-Free Stocks of Recombinant Adeno-Associated Viruses: Normal Integration Does Not Require Viral Gene Expression," <i>Journal of Virology</i> <u>63</u> (9):3822-3828 (1989)
	GX-1	Shi et al., "Specific DNA-RNA Hybrid Binding by Zinc Finger Proteins," <i>Science</i> <u>268</u> :282-284 (1995)

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JB	GY-1	Shi et al., "DNA Unwinding Induced by Zinc Finger Protein Binding," <i>Biochemistry</i> <u>35</u> :3845-3848 (1996)
↓	GZ-1	Shi et al., "A Direct Comparison of the Properties of Natural and Designed Finger Proteins," <i>Chem. & Biol.</i> <u>2</u> (2):83-89 (1995)
↓	HA-1	Singh et al., "Molecular Cloning of an Enhancer Binding Protein: Isolation by Screening of an Expression Library with a Recognition Site DNA," <i>Cell</i> <u>52</u> :415-423 (1988)
↓	HB-1	Skerka et al., "Coordinate Expression and Distinct DNA-Binding Characteristics of the Four EGR-Zinc Finger Proteins in Jurkat T Lymphocytes," <i>Immunobiology</i> <u>198</u> :179-191 (1997)
JB	HC-1	Sommerfelt et al., "Receptor Interference Groups of 20 Retroviruses Plating on Human Cells," <i>Virology</i> <u>176</u> :58-59 (1990)
JB	HD-1	South et al., "The Nucleocapsid Protein Isolated from HIV-1 Particles Binds Zinc and Forms Retroviral-Type Zinc Fingers," <i>Biochemistry</i> <u>29</u> :7786-7789 (1990)
JB	HE-1	Spengler et al., "Regulation of Apoptosis and Cell Cycle Arrest by ZC1, A Novel Zincfinger Protein Expressed in the Pituitary Gland and the Brain," <i>EMBO Journal</i> <u>6B</u> , Oxford University Press, Surrey <u>16</u> (10):2814-2825 (1997)
↓	HF-1	Suzuki et al., "Stereochemical Basis of DNA Recognition by Zn Fingers," <i>Nuc. Acids Res.</i> <u>22</u> (16):3397-3405 (1994)
↓	HG-1	Suzuki et al. "DNA Recognition Code of Transcription Factors in the Helix-turn-Helix, Probe Helix, Hormone Receptor, and Zinc Finger Families," <i>PNAS</i> <u>91</u> :12357-12361 (1994)
↓	HH-1	Swirnoff et al., "DNA-Binding Specificity of NGFI-A and Related Zinc Finger Transcription Factors," <i>Mol. Cell. Biol.</i> <u>15</u> (4):2275-2287 (1995)
↓	HI-1	Taylor et al., "Designing Zinc-Finger ADRI Mutants with Altered Specificity of DNA Binding to T in UASI Sequences," <i>Biochemistry</i> <u>34</u> :3222-3230 (1995)
↓	HJ-1	Thiesen et al., "Determination of DNA Binding Specificities of Mutated Zinc Finger Domains," <i>FEBS Letters</i> <u>283</u> (1):23-26 (1991)

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<i>JB</i>	HK-1	Thiesen et al., "Amino Acid Substitutions in the SP1 Zinc Finger Domain Alter the DNA Binding Affinity to Cognate SP1 Target Site," <i>Biochem. Biophys. Res. Communications</i> <u>175</u> (1):333-338 (1991)
<i>JB</i>	HL-1	Thiesen, H.J., "From Repression Domains to Designer Zinc Finger Proteins: A Novel Strategy for Intracellular Immunization Against HIV," <i>Gene Expression</i> <u>5</u> :229-243 (1996)
	HM-1	Thukral et al., "Localization of a Minimal Binding Domain and Activation Regions in Yeast Regulatory Protein ADR1," <i>Molecular Cellular Biology</i> <u>9</u> (6):2360-2369 (1989)
	HN-1	Thukral et al., "Two Monomers of Yeast Transcription Factor ADR1 Bind a Paldromic Sequence Symmetrically to Activate <i>ADH2</i> Expression," <i>Molecular Cellular Biol.</i> <u>11</u> (3):1566-1577 (1991)
	HO-1	Thukral et al., "Alanine Scanning Site-Directed Mutagenesis of the Zinc Fingers of Transcription Factor ADR1: Residues that Contact DNA and that Transactivate," <i>PNAS</i> <u>88</u> :9188-9192 (1991) + correction page
↓	HP-1	Thukral et al., "Mutations in the Zinc Fingers of ADR1 That Change the Specificity of DNA Binding and Transactivation," <i>Mol. Cell Biol.</i> <u>12</u> (6):2794-2792 (1992)
<i>JB</i>	HQ-1	Tratschin et al., "Adeno-Associated Virus Vector for High-Frequency Integration, Expression, and Rescue of Genes in Mammalian Cells," <i>Molecular and Cellular Biology</i> <u>5</u> (11):3251-3260 (1985)
<i>JB</i>	HR-1	Tratschin et al., "A Human Parvovirus, Adeno-Associated Viurs, as a Eucaryotic Vector: Transient Expression and Encapsidation of the Procaryotic Gene for Chloramphenicol Acetyltransferase," <i>Molecular and Cellular Biology</i> <u>4</u> (10):2072-2081 (1984)
	HS-1	Vortkamp et al., "Identification of Optimized Target Sequences for the GL13 Zinc Finger Protein," <i>DNA Cell Biol.</i> <u>14</u> (7):629-634 (1995)
	HT-1	Wang et al., "Dimerization of Zinc Fingers Mediated by Peptides Evolved <i>in vitro</i> from Random Sequences," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>96</u> :9568-9573 (1999)
↓	HU-1	Webster et al., "Conversion of the E1A Cys4 Zinc Finger to a Nonfunctional His2, Cys2 Zinc Finger by a Single Point Mutation," <i>PNAS</i> <u>88</u> :9989-9993 (1991)

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Title: METHODS OF USING RANDOMIZED LIBRARIES OF ZINC FINGER PROTEINS FOR THE IDENTIFICATION OF GENE FUNCTION

Exam. Init.	Ref. Desig.	Description
JB	HV-1	Whyatt et al., "The Two Zinc Finger-Like Domains of GATA-1 Have Different DNA Binding Specificities," <i>EMBO J.</i> <u>12</u> (13):4993-5005 (1993)
JB	HW-1	Wilson et al., "In Vivo Mutational Analysis of the NGFI-A Zinc Fingers," <i>J. Biol. Chem.</i> <u>267</u> (6):3718-3724 (1992)
JB	HX-1	Wilson et al., "Formation of Infectious Hybrid Virions with Gibbon Ape Leukemia Virus and Human T-Cell Leukemia Virus Retroviral Envelope Glycoproteins and the gag and pol Proteins of Moloney Murine Leukemia Virus," <i>Journal of Virology</i> <u>63</u> (5):2374-2378 (1998)
	HY-1	Witzgall et al., "The Kruppel-Associated Box-A (KRAB-A) Domain of Zinc Finger Proteins Mediates Transcriptional Repression," <i>PNAS</i> <u>91</u> :4514-4518 (1994)
	HZ-1	Wolfe et al., "Analysis of Zinc Fingers Optimized Via Phage Display: Evaluating the Utility of a Recognition Code," <i>J. Mol. Biol.</i> <u>285</u> :1917-1934 (1999)
	IA-1	Wright et al., "Expression of a Zinc Finger Gene in HTLV-1 and HTLV-II Transformed Cells," <i>Science</i> <u>248</u> :588-591 (1990)
	IB-1	Wu et al., "Building Zinc Fingers by Selection: Toward a Therapeutic Application," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>92</u> :344-348 (1995)
JB	IC-1	Yang et al., "Surface Plasmon Resonance Based Kinetic Studies of Zinc Finger-DNA Interaction," <i>J. Immunol. Methods</i> <u>183</u> :175-182 (1995)
JB	ID-1	Yu et al., "A Hairpin Ribozyme Inhibits Expression of Diverse Strains of Human Immunodeficiency Virus Type 1," <i>PNAS</i> <u>90</u> :6340-6344 (1993)
JB	IE-1	Zhang et al., "Synthetic Zinc Finger Transcription Factor Action at an Endogenous Chromosomal Site. Activation of the Human Erythropoietin Gene," <i>Journal of Biological Chemistry</i> <u>275</u> (43):33850-33860 (2000)
	IF-1	Search of Swissprot. Database performed ca. August 2000 <i>not considered</i>

Examiner:

J.B. Bruner

Date Considered:

7/31/02

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.